

IN THE SPECIFICATION:

Please replace the paragraph beginning with page 4, line 1 with the following rewritten paragraph:

Fig. 1 is a schematic diagram of an illustrative implementation of a digital imaging system implemented in accordance with the teachings of the present invention. The inventive imager 11 includes an array 13 of detector elements of which a single row is shown with three transistors Q1, Q2 and Q3. Those skilled in the art will appreciate that ~~he~~ the number of transistors in each row and the number of rows and columns in the array will vary depending on the application and the resulting array would be encompassed within the scope of the present teachings.

Please replace the paragraph beginning with page 6, line 4 with the following rewritten paragraph:

Fig. 3 is a sectional side view showing a portion of the detector array of the imaging system of the present invention on a physical substrate with a color filter thereon. The array 13 is segmented into plural sets of three detector elements 31, 33, 35, each having a detector transistor dedicated to the detection of light of a predetermined color (red, yellow, blue, respectively) for a given picture element (pixel) 29. The array 13 is mounted on a first side ~~34~~ 37 of a transparent substrate 27. The substrate 27 may be sapphire in SOS wafers, quartz or glass in SOI wafers, or other suitably transparent material.

Please replace the paragraph beginning with page 6, line 12 with the following rewritten paragraph:

Plural sets of color filters, one for each pixel 29, are disposed on a second side ~~37~~ 39 of the substrate 27. Light of a predetermined color is directed to a photodetector 31, 33, 35 by an associated filter 29' mounted on the second side ~~35~~ 39 of the substrate 27. The first filter 41 is a red filter and may be implemented with red dyed polyimide or other suitable material. The second filter 43 is a yellow filter and may be implemented with yellow dyed polyimide or other suitable material. The third filter 45 is a blue filter and may be implemented with blue dyed polyimide or other suitable material. Those skilled in the art will appreciate that the present invention is not limited to the colors associated with the detector elements and the filters associated therewith. The first and second filter elements 41 and 43 for each filter 29' may be applied with first and second film layers 47 and 49 respectively.